



Chesterfield County Fire Department – Plans Review Fire Flow Estimate Form

International Fire Code Method of Calculating NFF (Needed Fire Flow)

Engineer: _____ Date: _____

Project Name and Address: _____ Calc By: _____

Type of Construction – Based on 2000 Edition of the International Building Code

Number of Stories: _____

Total Ground Floor Area – Including Projections (Canopies, Loading Docks, Etc): _____

Total Area of Other Floors – Including Basements _____

Total Building Area in Square Feet _____

FIRE AREA CONSIDERED:

Note: In order to apply the reduction in area for a building, a fire resistive rated FIRE WALL without openings shall be provided. WITHOUT OPENINGS refers to no penetrations being permitted (i.e. – doors, duct penetrations, pipe penetrations. (B104.1)

Fire Resistive Rating of FIRE WALL _____ (Hours)

Area In Square Feet Between FIRE WALL or Either Side _____

Required Fire Flow from International Fire Code – Table B105.1 _____

Fire Flow Duration in Hours from International Fire Code – Table B105.1 _____

NEEDED FIRE FLOW : (Based on Total Adjusted Square Foot Area)

Automatic Sprinklers (YES ___ NO ___) Reduction Factor (75% max) _____ % x (NFF) _____ = _____ **GPM**

NOTE: MINIMUM REQUIRED FIRE FLOW NOT LESS THAN 1500 GPM TOTAL GPM: _____
AT MINIMUM 20 PSI RESIDUAL PRESSURE

FIRE HYDRANTS AND SPACING:

REQUIRED MINIMUM NUMBER OF FIRE HYDRANTS (IFC Table C105.1) _____

AVERAGE SPACING BETWEEN FIRE HYDRANTS (IFC Table C105.1) _____

I CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND CORRECT.

SIGNATURE: _____ **P.E.**

(SIGNATURE REQUIRED)

Reference: 2000 Edition International Fire Code, Appendix B, C, and D; Code of Chesterfield (1997)

Sections 10-1, 10-3 and 10-7 as amended and adopted on 10/08/03 by Chesterfield County Board of Supervisors